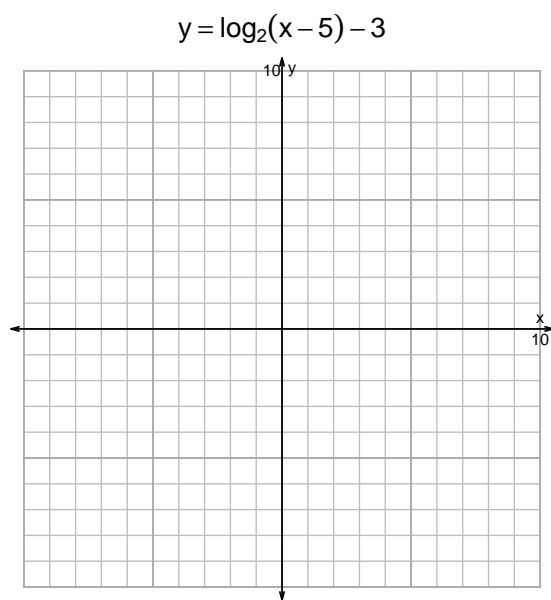
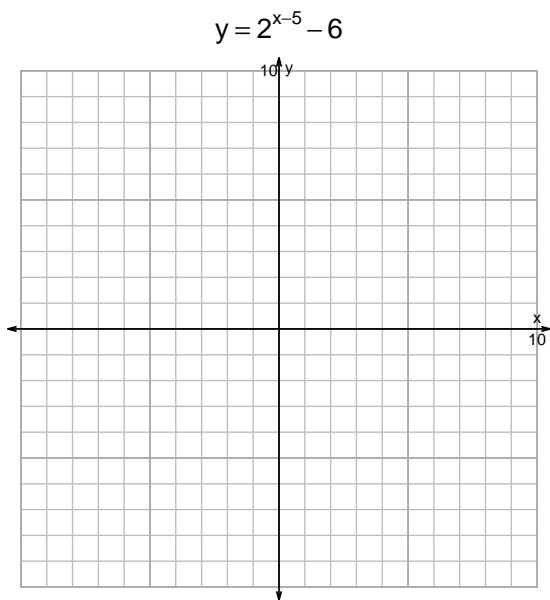


Name: _____

Date: _____

S18QUIZ: EXP LOG (PRACTICE v144)

1. Graph $y = 2^{x-5} - 6$ and $y = \log_2(x - 5) - 3$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-19 = \left(\frac{-4}{5}\right) \cdot 2^{-3t/7}$$

3. An exponential function $f(x) = 0.0324 \cdot e^{-1.1x}$ is graphed below on a semi-log plot.



- a. Using the plot above, evaluate $f(1.7)$.
- b. Express $f^{-1}(x)$, the inverse of f .
- c. Using the plot above, evaluate $f^{-1}(0.07)$.